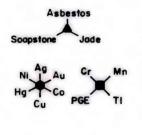


Figure 1. Ophiolitic and other mafic-ultramafic metallogenic provinces in Alaska (west of 141st Meridian)

EXPLANATION

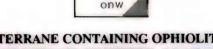


Barbs on polygons indicate presence of indicated commodities at specified locations, which, are described in Table 1. In congested areas, some locations are shown by solid circles and the appropriate polygons are connected to those locations by leaders. This symbology refers only to mineral commodities that are clearly associated with or derived from ophiolitic rocks or mafic and ultramafic rocks of uncertain affinity. Commodities not clearly associated with or derived from ophiolitic or other mafic and ultramafic rocks are contained in parentheses, under the heading "commodities" in table 1.

Location described in table 1. Unless indicated by other symbols, no commodity is clearly associated with ophiolitic rocks or other mafic and ultramafic rocks.

MAP UNITS

NORTHERN AND WESTERN ALASKA

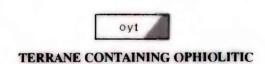


TERRANE CONTAINING OPHIOLITIC COMPLEXES OF NORTHERN AND WESTERN **ALASKA**

Black pattern represents allochthonous alpine-type maficultramafic complexes composed of a lower mantle suite of serpentinized harzburgite and dunite and an upper plutonic suite of layered ultramafic rocks and layered and nonlayered gabbro. K-Ar ages range mostly from Middle to Late Jurassic.

Outlined white areas represent an imbricate assemblage of pillow-basalt, radiolarian chert, gabbro, argillite, and graywacke with prehnite-pumpellyite metamorphic facies assemblages. Presence of glaucophane near base indicates local highpressure metamorphism. Fossil ages range from Devonian to

EAST-CENTRAL ALASKA



COMPLEXES OF EAST-CENTRAL ALASKA Black pattern represents allochthonous alpine-type maficultramafic complexes composed of serpentinized harzburgite

and dunite, sparse layered gabbro, and coarse nonlayered gabbro. Age is uncertain.

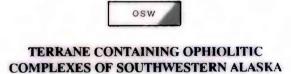
Outlined white areas represent assemblages of pillow basalt, basaltic tuffs, radiolarian chert, argillite, graywacke, conglomerate, and limestone. Prehnite-pumpellyite metamorphic facies. Fossils of Mississippian, Early Permian, and Late Triassic ages.



Include small mafic-ultramafic bodies along Denali-Farewell-Togiak fault system in eastern and central Alaska Range and between Fairbanks and the Yukon River. Ages and structural

setting of bodies poorly known.

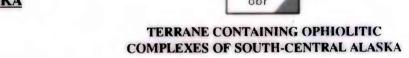
SOUTHWESTERN ALASKA



Black pattern represents allochthonous alpine mafic-ultramafic complexes composed of nonlayered gabbro and lesser amounts of harzburgite and dunite. Uncertain but probable Mesozoic

> Outlined white areas represent imbricate assemblage of pillow basalt, radiolarian chert, gabbro, argillite, graywacke, and carbonate rocks. Prehnite-pumpellyite and locally transitional blueschist-greenschist metamorphic facies. Fossil ages range from Devonian to Jurassic.

SOUTH-CENTRAL ALASKA



Black pattern represents ultramafic rocks including dunite, wehrlite, clinopyroxenite, websterite, and harzburgite.

Outlined white areas represent gabbro complexes including gabbronorite, leucogabbronorite, and ferrogabbronorite. K-Ar ages range from Early to Middle Jurassic.

> TERRANE CONTAINING OPHIOLITIC COMPLEXES OF THE GULF OF ALASKA REGION

Chiefly pillow basalt and sheeted dikes with lesser amounts of layered gabbro, serpentinized peridotite, and plagiogranite. Associated with Late Cretaceous to early Tertiary turbidites. Prehnite-pumpellyite to lower greenschist metamorphic facies. One U-Pb date of 57 Ma from the Resurrection Peninsula.